

## **ABSTRACT OF THE DISCLOSURE**

A continuous output system makes paper coating by combining an emulsifier with ASA particles having a mean average size in the low to sub-micron region. A turbine, pump, blender or other device exposes the ASA to a number of repeated episodes of high shear until the resulting ASA is in the form of particles having a mean average diameter in approximately the  $1\mu$  range. The measure of the amount of high shear is identified by an energy factor index. A system for cooling the ASA enables the processing without causing a hydrolyzing of the ASA, even when a heated cooked emulsion is used.

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